



RESOURCE AND PATIENT MANAGEMENT SYSTEM

Immunization Interface Management

(BYIM)

Installation Guide and Release Notes

Version 3.0
September 2020

Office of Information Technology
Division of Information Technology

Table of Contents

1.0	Release Notes	1
2.0	Installation Notes	2
2.1	Contents of Distribution	2
2.2	System Requirements	2
2.3	Before You Begin: Installation Issues	2
3.0	Installation Instructions	4
4.0	Sample Installations	6
4.1	Sample Cache Install.....	6
	Acronym List	10
	Contact Information	11

Revision History

Version	Date	Notes
1.0	August 2005	Initial version
1.01	June 2008	Allows automated exchange of information via HL7 Bridge (not part of RPMS package), ability to add Health Insurance Portability and Accountability Act (HIPAA) compliant secured directories for in/outbound files. Allows automatic importation of state immunization data into RPMS.
2.0	September 2020	<p>Added the ability to expand age groups included in export to include 65 and older or all ages; the ability to exit (^) the manual export process; the ability to sort the NO MATCH report by patient name, date of birth, or import file date, and include a reason for each No Match; new statistical report for the number of children and immunizations in both the export and import processes, including the VFC status.</p> <p>Retitled manual from Immunization Data Exchange to Immunization Interface Management (IIMM)</p>
3.0	September 2020	<p>Version 3.0 provides the functionality to do (near) real-time, query/response capability which allows two primary capabilities: 1) the ability to send HL7 - VXU messages to the State Immunization Information System (SIIS) to ensure that the SIIS has all immunizations for a patient that are currently on file in RPMS; 2) the ability to query the SIIS to receive all the immunizations that the SIIS has on file for the patient.</p> <p>There are calls that allow other packages such as the Immunization package and Electronic Health Record (EHR) and others to do both of these functions and receive to the results of the query responses which enables the provider to compare immunization information for the patient in RPMS with that of the SIIS.</p>

1.0 Release Notes

Immunization Interface Management (BYIM), also known as Immunization Data Exchange, is a two-way Generic Interface System (GIS) HL7 interface that allows the exchange of immunization data for children from birth (0) to 19 years of age with State immunization registries.

The RPMS side of Immunization Interface Management Menu (IIMM) sends the complete immunization history for each child to the respective state registry. IIMM is also capable of receiving and processing immunization data that is returned from the State registries.

Version 3.0 provides the functionality to do (near) real-time, query/response capability which allows two primary capabilities: 1) the ability to send HL7 - VXU messages to the SIIS to ensure that the SIIS has all immunizations for a patient that are currently on file in RPMS; 2) the ability to query the SIIS to receive all the immunizations that the SIIS has on file for the patient.

There are calls that allow other packages such as the Immunization package and EHR and others to do both of these functions and receive to the results of the query responses which enables the provider to compare immunization information for the patient in RPMS with that of the SIIS.

2.0 Installation Notes

Prefix: BYIM

Current Version: 3.0

Note: Read the entire notes file prior to attempting any installation.

2.1 Contents of Distribution

File	Description
byim0300.k	KIDS file
byim0300.b	Global file
byim030i.pdf	Installation Guide and Release Notes (this file)
byim030u.pdf	User Manual
byim030t.pdf	Technical Manual

2.2 System Requirements

- Kernel (XU) v8.0 1018 or later
- FileMan (DI) v22.0 1018 or later
- Generic Interface (GIS) v3.01
- IHS Immunization System (BI) v8.5 p19
- For sites with the ability to transmit immunization data to/from their state immunization registry automatically, the Simple Message Mover (SMM).

Note: The site must have an account with their State Immunization Registry for HTTPS secured transfer of the immunization data to the state.

2.3 Before You Begin: Installation Issues

1. Make a copy of this distribution for offline storage.
2. Print all notes/readme files.

Note: It is recommended that you create a printed audit trail in case there are any problems with the installation.

To capture terminal output during the installation, use an auxport printer attached to the terminal on which you are performing the installation.

3. Make sure you have the correct database privileges.

Contact the IHS IT Service Desk to obtain the password:

Phone: (888) 830-7280 (toll free)

Web: <https://www.ihs.gov/itsupport/>

E-mail: itsupport@ihs.gov

3.0 Installation Instructions

1. At the prompt, kill the global ^INXPORT.
2. Do a global restore of the byim0300.b file.
 - a. At the prompt, type **D ^%GI**.
 - b. At the “Device” prompt, enter the path followed by the global file name.
For Example:
Unix: **/usr/import/byim0300.b**
Windows: **d:\import\byim0300.b**
 - c. At the “Input option” prompt, type **A**.
 - d. At the next three prompts, press Enter to continue.
3. At the system prompt, type **D ^XUP** to enter the kernel.
4. Select Option Name: **XPD MAIN** (KIDS Menu).
5. Select the Kernel Installation & Distribution System option: **Installation**.
 - a. Select Installation Option **1, Load a Distribution**.
 - b. Enter the path filename of the Host File, **byim0300.k**.
Example: **/usr/spool uucppublic/byim0300.k**
 - c. At the “OK to continue with Load?” prompt, type **Y** and press Enter.
 - d. At the “Want to Continue with Load?” prompt, press Enter (Yes).
 - e. At the “Want to RUN the Environment Check Routine?” prompt, press Enter (Yes).
6. Select Installation Option **2, Verify Checksums in Transport Global**.
Install name: BYIM Immunization Data Exchange Interface 2.0
7. At the “DEVICE” prompt, do one of the following:
 - a. Press Enter to print the output to your terminal, or
 - b. Enter the auxport printer to print the output on paper.
8. Select Installation Option **6, Install Package(s)**.
Install name: BYIM Immunization Data Exchange Interface 2.0.
9. At the “DEVICE” prompt, do one of the following:

- a. Press Enter to print the output to your terminal, or
 - b. Enter the auxport printer to print the output on paper.
10. At the “Yes or No??” prompt to clean out existing subfields from all fields, from all segments, and segments from all messages, type **Y** and press Enter.
11. After the installation is complete:
- a. Assign the BYIM menu and security key, using Table 3-1, to the authorized users.

Table 3-1: Menu and security key

Name	Description
BYIMZMENU	For all users who need access to Immunization Data Exchange
BYIMZ IZ EXPORT	For users who need access to manually export immunizations.
BYIM IZ AUTO IMPORT BYIM IZ TEST EXPORT BYIM SET PARAMETERS	For user(s) responsible for management of Immunization Data Exchange

- b. Add the BYIMMENU option to the appropriate RPMS menu.

4.0 Sample Installations

4.1 Sample Cache Install

```

PRD> CMBC>K ^INXPORT

CMBC>D ^%GI

Global input

Device: c:\byim0300.b
Parameters? ("R") =>
Globals were saved on 15 Jul 20 4:13 PM Cache
with description:

Input option: a

CMBC>D ^XUP

Setting up programmer environment
This is a TEST account.

Terminal Type set to: C-VT100

Select OPTION NAME: XPD MAIN      Kernel Installation & Distribution
System

        Edits and Distribution ...
        Utilities ...
        Installation ...
        Patch Monitor Main Menu ...

Select Kernel Installation & Distribution System Option: installation

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
        Restart Install of Package(s)
        Unload a Distribution

Select Installation Option: load a Distribution
Enter a Host File: c:\byim0300.k

KIDS Distribution saved on Jul 15, 2020@16:11:43
Comment: BYIM Immunization Data Exchange Version 3.0

This Distribution contains Transport Globals for the following Package(s):
Build BYIM IMMUNIZATION DATA EXCHANGE V 3.0

OK to continue with Load? NO// y YES

Distribution OK!

```

```
Want to Continue with Load? YES//
Loading Distribution...

Build BYIM IMMUNIZATION DATA EXCHANGE V 3.0 has an Environmental Check
Routine
Want to RUN the Environment Check Routine? YES//
  BYIM IMMUNIZATION DATA EXCHANGE V 3.0
Will first run the Environment Check Routine, BYIMIMM

Use INSTALL NAME: BYIM IMMUNIZATION DATA EXCHANGE V 3.0 to install this
Distribution.

  1      Load a Distribution
  2      Verify Checksums in Transport Global
  3      Print Transport Global
  4      Compare Transport Global to Current System
  5      Backup a Transport Global
  6      Install Package(s)
         Restart Install of Package(s)
         Unload a Distribution

Select Installation Option: install Package(s)
Select INSTALL NAME:   BYIM IMMUNIZATION DATA EXCHANGE V 3.0      Loaded
from Distribution     Loaded from Distribution  6/15/20@22:16:44
                    => BYIM Immunization Data Exchange Version 3.0 ;Created on Jul 15,
2020

This Distribution was loaded on Jul 15, 2020@22:16:44 with header of
  BYIM Immunization Data Exchange Version 3.0 ;Created on Jul 15,
2020@16:11:43
  It consisted of the following Install(s):
BYIM IMMUNIZATION DATA EXCHANGE V 3.0
Checking Install for Package BYIM IMMUNIZATION DATA EXCHANGE V 3.0
Will first run the Environment Check Routine, BYIMIMM

Install Questions for BYIM IMMUNIZATION DATA EXCHANGE V 3.0

Incoming Files:

  90480      IZ PARAMETERS
Note:  You already have the 'IZ PARAMETERS' File.

  90480.1    IZ EXPORTS
Note:  You already have the 'IZ EXPORTS' File.

  90480.2    IZ HL7 MESSAGES
Note:  You already have the 'IZ HL7 MESSAGES' File.

  90480.3    IZ TRANSPORT FILES
Note:  You already have the 'IZ TRANSPORT FILES' File.

  90480.5    IZ NOS TABLE (including data)
Note:  You already have the 'IZ NOS TABLE' File.
I will OVERWRITE your data with mine.
```

90480.6 IZ RELATIONSHIP MAPPING (including data)
 Note: You already have the 'IZ RELATIONSHIP MAPPING' File.
 I will OVERWRITE your data with mine.

90480.7 IZ CDC RELATIONSHIP CODES (including data)
 Note: You already have the 'IZ CDC RELATIONSHIP CODES' File.
 I will OVERWRITE your data with mine.

90480.8 IZ CONTRAINDICATION CODES (including data)
 Note: You already have the 'IZ CONTRAINDICATION CODES' File.
 I will OVERWRITE your data with mine.

90480.9 IZ HL7 SEGMENTS AND FIELDS (including data)
 Note: You already have the 'IZ HL7 SEGMENTS AND FIELDS' File.
 I will OVERWRITE your data with mine.

90480.91 IZ TABLE VIS BARCODES (including data)
 Note: You already have the 'IZ TABLE VIS BARCODES' File.
 I will OVERWRITE your data with mine.

Incoming Mail Groups:

Enter the Coordinator for Mail Group 'BYIM EXPORT/IMPORT GROUP': LOVE,TOM//

Enter the Device you want to print the Install messages.
 You can queue the install by enter a 'Q' at the device prompt.
 Enter a '^' to abort the install.

DEVICE: HOME// CONSOLE

BYIM IMMUNIZATION DATA EXCHANGE V 3.0

=====

Installing LIST TEMPLATE

Installing OPTION

Jul 15, 2020@22:17

Running Post-Install Routine: V3^BYIMPATC

Updating Routine file...

Updating KIDS files...

BUILD BYIM IMMUNIZATION DATA EXCHANGE V 3.0 **Couldn't Add to file**

BYIM IMMUNIZATION DATA EXCHANGE V 3.0 Installed.

Jul 15, 2020@22:17

NO Install Message sent

=====

```

      80%  x  =====
Complete =====
                25          50          75          x

Install Completed

1      Load a Distribution
2      Verify Checksums in Transport Global
3      Print Transport Global
4      Compare Transport Global to Current System
5      Backup a Transport Global
6      Install Package(s)
       Restart Install of Package(s)
       Unload a Distribution

Select Installation Option:
    
```

Figure 4-1: Sample installation

Acronym List

Acronym	Meaning
BYIM	Immunization Interface Management
EHR	Electronic Health Record
GIS	Generic Interface System
HIPPA	Health Insurance Portability and Accountability Act
IIMM	Immunization Interface Management Menu
RPMS	Resource and Patient Management System
SIIS	State Immunization Information System
SMM	Simple Message Mover

Contact Information

If you have any questions or comments regarding this distribution, please contact the IHS IT Service Desk.

Phone: (888) 830-7280 (toll free)

Web: <https://www.ihs.gov/itsupport/>

Email: itsupport@ihs.gov